APPENDIX A. LIST OF MAP REFERENCES

Halfmoon Creek (07083000)

a. U.S. Geological Survey topographic maps:

- Lake County, Colorado (1:50,000), 1975
- Mount Elbert, Colorado (1:24,000), 1979
- Mount Massive, Colorado (1:24,000), 1967, streamflow-gaging station
- Mt. Champion, Colorado (1:24,000), 1960

b. Geologic maps:

- Tweto, Ogden, and Reed, J.C., Jr., 1973, Reconnaissance geologic map of the Mount Elbert 15-minute quadrangle, Lake, Chaffee, and Pitkin Counties, Colorado: U.S. Geological Survey Open-File Report 72–287.
- Van Loenen, R.E., 1985, Geologic map of the Mount Massive Wilderness, Lake County, Colorado: U.S. Geological Survey Miscellaneous Field Studies Map 1792–A, 1 pl., scale 1:50,000.
- Van Loenen, R.E., Lee, G.K., Campbell, D.L., and Thompson, J.R, 1989, Mineral resource potential of Mount Massive Wilderness, Lake County, Colorado: U.S. Geological Survey Bulletin 1636, 18 p.

c. Soil surveys:

- U.S. Department of Agriculture, 1975, Soil survey of Chaffee-Lake area, Colorado: U.S. Department of Agriculture, Soil Conservation Service, 78 p.

d. Other maps:

- Leadville, Colorado, 30' x 60' quadrangle, Bureau of Land Management, 1983, scale 1:100,000.

Vallecito Creek near Bayfield, Colorado (09352900)

a. U.S. Geological Survey Topographic Maps

- Columbine Pass, Colorado (1:24,000), 1975
- Emerald Lake, Colorado (1:24,000), 1973
- La Plata County, Colorado (1:50,000), 1975
- Rio Grande Pyramid, Colorado (1:24,000), 1975
- Storm King Peak, Colorado (1:24,000), 1975
- Vallecito Reservoir, Colorado (1:24,000), 1971, streamflow-gaging station

b. Geologic maps:

- Cross, W., and Larsen, E.S., 1935, A brief review of the geology of the San Juan Region of southwestern Colorado: U.S. Geological Survey Bulletin 843, 138 p.
- Gonzales, D.A., 1988, A geologic investigation of the early Proterozoic Irving Formation, southeastern Needle Mountains, Colorado: U.S. Geological Survey Open- File Report 88–660, 119 p.
- Larsen, E.S., Jr., and Cross, W., 1956, Geology and petrology of the San Juan region, southwestern Colorado: U.S. Geological Survey Professional Paper 258, 303 p.

c. Soil Surveys: No soil survey available.

d. Other maps:

- U.S. Geological Survey orthophotoquad, 7.5-minute series: Columbine Pass, Colorado, 1975, Emerald Lake, Colorado, 1978, Rio Grande Pyramid, Colorado, 1976, Storm King Peak, Colorado, 1975, Vallecito Reservoir, Colorado, 1977

Kings Creek near Manhattan, Kansas (06879650)

a. U.S. Geological Survey topographic maps:

- Manhattan, Kansas (1:100,000), 1990
- Swede Creek, Kansas (1:24,000), 1982, streamflow- gaging station

b. Geologic maps:

- Jewett, J.M., 1941, The geology of Riley and Geary Counties, Kansas: State Geological Survey of Kansas Bulletin 39.

c. Soil surveys:

- U.S. Department of Agriculture, 1975, Soil survey of Riley County and part of Geary County, Kansas: U.S. Department of Agriculture, Soil Conservation Service, 71 p.

Rock Creek below Horse Creek near International Boundary, Montana (06169500)

a. U.S. Geological Survey topographic maps:

- Coal Mine Creek East, Montana-Saskatchewan (1:24,000), 1976
- Coal Mine Creek West, Montana-Saskatchewan (1:24,000), 1984
- Lighthouse Hill, Montana-Saskatchewan (1:24,000), 1984, streamflow-gaging station

b. Geologic maps:

- Colton, R.B., Whitaker, S.T., and Ehler, W.C., 1989, Geologic map of the Opheim 1× ¥ 30' quadrangle, Valley and Daniels Counties, Montana: U.S. Geological Survey Open-File Report 89–319.
- Whitaker, S.H., and Pearson, D.E., 1972, Geological map of Saskatchewan: Province of Saskatchewan Department of Mineral Resources and Saskatchewan Research Council, 1 pl.

c. Soil surveys:

- U.S. Department of Agriculture, 1984, Soil survey of Valley County, Montana: U.S. Department of Agriculture, Soil Conservation Service, 102 p.

d. Other maps:

- Opheim, Montana, 30' x 60' quadrangle, Bureau of Land Management, 1984, scale 1:100,000.
- Horse Creek topographic map, Surveys and Mapping Branch, Department of Energy, Mines, and Resources, 1974, scale 1:50,000.
- McCord topographic map, Surveys and Mapping Branch, Department of Energy, Mines, and Resources, 1975, scale 1:50,000.

Swiftcurrent Creek at Many Glacier Creek, Montana (05014500)

a. U.S. Geological Survey topographic maps:

- Ahern Pass, Montana (1:24,000), 1968
- Logan Pass, Montana (1:24,000), 1968
- Many Glacier, Montana (1:24,000), 1968, streamflow-gaging station
- Saint Mary, Montana-Alberta (1:100,000), 1981

b. Geologic maps:

- Alpha, T.R., and Nelson, W.H., 1990, Geologic sketches of Many Glacier, Hidden Lake Pass, Comeau Pass, and Bears Hump Viewpoint, Waterton-Glacier International Peace Park, Alberta, Canada, and Montana, United States: U.S. Geological Survey Miscellaneous Investigation Series Map I–1508–E.
- Carrara, P.E., 1990, Surficial geologic map of Glacier National Park, Montana: U.S. Geological Survey Miscellaneous Investigation Series Map I–1508–D.
- Earhart, R.L., Raup, O.B., Whipple, J.W., Ison, A.L., and Davis, G.A., 1990, Geologic maps, cross section, and photographs of the central part of Glacier National Park, Montana: U.S. Geological Survey Miscellaneous Investigation Series Map I–1508–B.
- James, H.L., 1982, Glacial features of the Upper Swiftcurrent Valley, Glacier National Park, Montana: Montana Bureau of Mines and Geology Geologic Map 27.
- Ross, C.P., 1959, Geology of Glacier National Park and the Flathead region, northwestern Montana: U.S. Geological Survey Professional Paper 296.

c. Soil surveys: No soil survey available.

Dismal River near Thedford, Nebraska (06775900)

a. U.S. Geological Survey topographic maps:

- Dismal River, Nebraska (1:100,000), 1985
- Jefford Lake, Nebraska (1:24,000), 1984
- Rosebud Lake, Nebraska (1:24,000), 1985, streamflow-gaging station
- Shimmins Lake, Nebraska (1:24,000), 1984
- Shimmins Lake SE, Nebraska (1:24,000), 1984
- Thedford SE, Nebraska (1:24,000), 1985
- Thedford SW, Nebraska (1:24,000), 1985

b. Geologic maps:

- Ahlbrandt, T.S., Fryberger, S.G., Hanley, J.H., and Bradbury, J.P., 1980, Geologic and paleoecologic studies of the Nebraska Sand Hills: U.S. Geological Survey Professional Paper 1120–A, B, C.

c. Soil surveys:

- U.S. Department of Agriculture, Soil Survey of Thomas County, Soil Conservation Service (out of date).

Mogollon Creek near Cliff, New Mexico (09430600)

a. U.S. Geological Survey topographic maps:

- Diablo Range, New Mexico (1:24,000), 1965
- Grouse Mountain, New Mexico (1:24,000), 1965
- Mogollon Baldy Peak, New Mexico (1:24,000), 1965
- Mogollon Mountains, New Mexico (1:100,000), 1985
- Rice Ranch, New Mexico (1:24,000), 1965, streamflow-gaging station
- Shelley Peak, New Mexico (1:24,000), 1965

b. Geologic maps:

- Ratte´, J.C., and Gaskill, D.L, 1975, Reconnaissance geologic map of the Gila Wilderness Study Area, Southwest New Mexico: U.S. Geological Survey Miscellaneous Investigation Series Map I–886, 2 pl., scale 1:62,500.
- Ratte´, J.C., Gaskill, D.L., Eaton, G.P., Peterson, D.L., Stotelmeyer, R.B., and Meeves, H.C., 1979, Mineral resources of the Gila Primitive Area and Gila Wilderness, New Mexico: U.S. Geological Survey Bulletin 1451, 229 p.

c. Soil surveys: No soil survey available.

d. Other maps:

- Mogollon Mountains, New Mexico, 30' x 60' quadrangle, Bureau of Land Management, 1985, scale 1:100,000.
- Gila National Forest Map, 1996, Southwestern Region, U.S. Department of Agriculture.

Rio Mora near Tererro, New Mexico (08377900)

a. U.S. Geological Survey topographic maps:

- Cowles, New Mexico (1:24,000), 1961, streamflow-gaging station
- Elk Mountain, New Mexico (1:24,000), 1963
- Gascon, New Mexico (1:24,000), 1965
- Pecos Falls, New Mexico (1:24,000), 1963

b. Geologic maps:

- Moench, R.H., Grambling, J.A., and Robertson, J.M., 1988, Geologic map of the Pecos Wilderness, Santa Fe, San Miguel, Mora, Rio Arriba, and Taos Counties, New Mexico: U.S. Geological Survey Miscellaneous Field Studies Map MF–1921–B, 2 pl., scale 1:48,000.
- U.S. Geological Survey, U.S. Bureau of Mines, New Mexico Bureau of Mines and Mineral Resources, 1980, Mineral resources of the Pecos Wilderness and adjacent areas, Santa Fe, San Miguel, Mora, Rio Arriba, and Taos Counties, New Mexico: U.S. Geological Survey Open-File Report 80–382, 103 p.

c. Soil surveys: No soil survey available.

d. Other maps:

- Santa Fe National Forest map, 1975, U.S. Department of Agriculture, scale 1 inch = 2 miles.
- Santa Fe, New Mexico, 30' x 60' quadrangle, Bureau of Land Management, 1983, scale 1:100,000.

Bear Den Creek near Mandaree, North Dakota (06332515)

a. U.S. Geological Survey topographic maps:

- Blue Buttes, North Dakota (1:24,000), 1965, streamflow-gaging station
- Croff, North Dakota (1:24,000), 1959
- Figure 4 Ranch, North Dakota (1:24,000), 1970
- Johnsons Corner, North Dakota (1:24,000), 1965
- Mandaree, North Dakota (1:24,000), 1970
- Sanish SW, North Dakota (1:24,000), 1967

b. Geologic maps:

- Bluemle, J.P., 1988, Guide to the geology of southeastern North Dakota, North Dakota Geological Survey Educational Series 18, 36 p.
- Carlson, C.G., 1985, Geology of McKenzie County, North Dakota, North Dakota Geological Survey, Bulletin 80, pt 1.

c. Soil surveys: No soil survey available.

d. Other maps:

- Parshall, North Dakota, 30' x 60' quadrangle, Bureau of Land Management, 1982, scale 1:100,000
- U.S. Department of Agriculture, 1986, Little Missouri National Grassland, North Dakota: U.S. Department of Agriculture, Forest Service, scale 1:126,720.

Beaver Creek near Finley, North Dakota (05064900)

a. U.S. Geological Survey topographic maps:

- Aneta, North Dakota (1:24,000), 1967
- Finley, North Dakota (1:24,000), 1967
- Finley NE, North Dakota (1:24,000), 1967
- Golden Lake, North Dakota (1:24,000), 1970, streamflow-gaging station
- Grand Forks, North Dakota-Minnesota (1:100,000), 1985
- Niagara SW, North Dakota (1:24,000), 1963

b. Geologic maps:

- Bluemle, J.P., 1975, Geology of Griggs and Steele Counties: North Dakota Geological Survey Bulletin 64, 11 p.
- Bluemle, J.P., 1988, Guide to the geology of southeastern North Dakota: North Dakota Geological Survey Educational Series 18, 36 p.
- Harris, K.L., and Luther, M.R., 1991, Surface geology of the Goose River map area: North Dakota Geological Survey Atlas Series Map 14, sheet A1.

c. Soil surveys:

- U.S. Department of Agriculture, 1997, Soil survey of Steele County, North Dakota: U.S. Department of Agriculture, Natural Resources Conservation Service, 214 p.

Castle Creek above Deerfield Reservoir, South Dakota (0640900)

a. U.S. Geological Survey topographic maps:

- Crooks Tower, South Dakota (1:24,000), 1956
- Crows Nest Peak, South Dakota (1:24,000), 1956
- Deerfield, South Dakota (1:24,000), 1979, streamflow-gaging station
- Ditch Creek, South Dakota (1:24,000), 1956
- Mount Rushmore, South Dakota (1:100,000), 1977
- Preacher Spring, South Dakota (1:24,000), 1956
- Rapid City, South Dakota (1:100,000), 1980

b. Geologic maps:

- DeWitt, E., Redden, J.A., Busher, D., and Wilson, A.B., 1989, Geologic map of the Black Hills area, South Dakota and Wyoming: U.S. Geological Survey Miscellaneous Investigations Series Map I–1910, 1 pl., scale 1:250,000.
- DeWitt, E., Redden, J.A., Wilson, A.B., Buscher, D., and Dersche J.S., 1986, Mineral resource potential and geology of the Black Hills National Forest, South Dakota and Wyoming: U.S. Geological Survey Bulletin 1580, 135 p.

c. Soil surveys:

- U.S. Department of Agriculture, 1990, Soil survey of Custer and Pennington Counties, Black Hills parts, South Dakota: U.S. Department of Agriculture, Soil Conservation Service, 295 p.

d. Other maps:

- Black Hills National Forest map, 1988, U.S. Department of Agriculture.

Little Vermillion River near Salem, South Dakota (06478540)

a. U.S. Geological Survey topographic maps:

- Oldham SW, South Dakota (1:24,000), 1968
- Canova East, South Dakota (1:24,000), 1971
- Unityville, South Dakota (1:24,000), 1971
- Winfred, South Dakota (1:24,000), 1971
- Winfred SE, South Dakota (1:24,000), 1971, streamflow-gaging station

b. Geologic maps:

- Darton, N.H., 1951, Geologic map of South Dakota: U.S. Geological Survey, 1 pl.
- Schroeder, W., 1988, Geology and water resources of Miner County, South Dakota: Department of Water and Natural Resources, South Dakota Geological Survey Bulletin 31, 38 p.

c. Soil surveys:

- U.S. Department of Agriculture, 1980, Soil survey of McCook County, South Dakota: U.S. Department of Agriculture, Soil Conservation Service.
- U.S. Department of Agriculture, 1984, Soil survey of Miner County, South Dakota: U.S. Department of Agriculture, Soil Conservation Service.

Cache Creek near Jackson, Wyoming (13018300)

a. U.S. Geological Survey topographic maps:

- Cache Creek, Wyoming (1:24,000), 1965, streamflow-gaging station
- Jackson, Wyoming (1:100,000), 1981
- Turquoise Lake, Wyoming (1:24,000), 1965

b. Geologic maps:

- Goetze, P.R., 1981, Regional geologic map for the Cache Creek-Bear Thrust environmental impact statement, Teton and Sublette Counties, Wyoming: U.S. Geological Survey Open-File Report 81–856, 1 pl.
- Love, C.M., and Love, J.D., 1978, Geologic map of the Turquoise Lake quadrangle, Teton County, Wyoming: U.S. Geological Survey Open-File Report 78–481.
- Love, J.D., and Love, C.M., 1978, Geologic map of the Cache Creek quadrangle, Teton County, Wyoming: U.S. Geological Survey Open-File Report 78–480.
- Simons, F.S., Love, J.D., Keefer, W.R., Harwood, D.S., and Kulik, D.M., 1988, Mineral resources of the Gros Ventre Wilderness Study Area, Teton and Sublette Counties, Wyoming: U.S. Geological Survey Bulletin 1591, 65 p.

c. Soil surveys:

- Glenn, W.R., 1981, Soil resource inventory order 3, Cache Creek-Little Granite Creek EIS area, Bridger-Teton National Forest: U.S. Geological Survey Open-File Report 81–855, Dern and Polk Resource Consultants, 51 p.

d. Other maps:

- Bridger-Teton National Forest map, Buffalo and Jackson Ranger Districts, U.S. Department of Agriculture, scale 1:126,720.
- Jackson, Wyoming 30' x 60' quadrangle, Bureau of Land Management, 1981, scale 1:100,000.
- Kruger, P.W., 1981, Report on climate, air quality, and noise for the Cache Creek-Bear Thrust environmental impact statement: U.S. Geological Survey Open-File Report 81–859.

Encampment River above Hog Park Creek, near Encampment, Wyoming (06623800)

a. U.S. Geological Survey topographic maps:

- Blackhall Mountain, Wyoming-Colorado (1:24,000), 1983
- Davis Peak, Colorado (1:24,000), 1955
- Dudley Creek, Wyoming-Colorado (1:24,000), 1983, streamflow-gaging station
- Mount Zirkel, Colorado (1:24,000), 1955
- Saratoga, Wyoming-Colorado (1:100,000), 1982
- Walden, Wyoming-Colorado (1:100,000), 1981
- West Fork Lake, Colorado (1:24,000), 1962

b. Geologic maps:

- Houston, R.S., and Ebbett, B.E., 1977, Geologic map of the Sierra Madre and western Medicine Bow Mountains, southeastern Wyoming: U.S. Geological Survey Miscellaneous Field Studies Map MF–827, 1 sheet.
- Houston, R.S., and Graff, P.J., 1995, Geologic map of Precambrian rocks of the Sierra Madre, Carbon County, Wyoming, and Jackson and Routt Counties, Colorado: U.S. Geological Survey Miscellaneous Investigations Series Map I–2452, 2 sheets.
- Snyder, G.L., 1980, Geologic map of the northernmost Park Range and southernmost Sierra Madre, Jackson and Routt Counties, Colorado: U.S. Geological Survey Miscellaneous Investigations Series Map I–1113, scale 1:48,000.
- Snyder, G.L., Patten, L.L., and Daniels, J.J., 1987, Mount Zirkel Wilderness and northern Park Range vicinity, Colorado: U.S. Geological Survey Bulletin 1554.

c. Soil surveys: No soil survey available.

d. Other maps:

- U.S. Geological Survey orthophotoquad, 7.5-minute series: Blackhall Mountain, Wyoming-Colorado, 1980, Davis Peak, Colorado, 1983, Dudley Creek, Wyoming-Colorado, 1980, Mount Zirkel, Colorado, 1983, West Fork Lake, Colorado, 1983
- Routt National Forest map, Ranger Districts, 1996,U.S. Department of Agriculture.